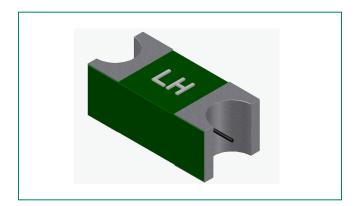
Surface Mount Fuses TFF Fuse > 470SNP Series > 1206 Fast Acting

470SNP Series Fuse





Agency Approvals

Agency	Agency File Number	Ampere Range	
c UL us	E10480	0.500 - 2A	

Description

The 470SNP series is a family of 125V rated high energy SMD fuses, perfect for space constrained applications. It offers the standard Nano Fuse circuit protection capability with a very small 1206 foot print.

This product is RoHS compliant, Halogen-Free and 100% Pb-Free with guaranteed operating temperature of up to 125°C.

Features

- Very Small 1206 Footprint
- 125V Voltage Rating
- Fast-Acting
- Pb-Free, RoHS Compliant and Halogen-Free
- Wide Operating temperature range of -55°C to 125°C

ENERGY STAR® Surge Immunity test compliant (100kHz Ring Wave, 2.5kV, 7-strikes common and differential modes) - 1.5A and above ampere rating only

Applica

- % of Ampere
 Rating

 Opening Time

 Hours, Minimum

 Soow

 Seconds, Maximum
- Applications
- LED Lighting
- LCD/LEDTVsNotebooks/PCs
- Gaming Consoles
- Battery Charging Circuit
 Protection
- Power Supply Units
- Telecom Systems
- White Goods

Electrical Characteristic

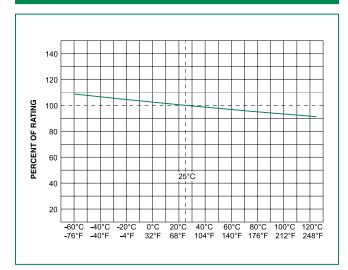
Electrical Characteristics for Series

Ampere	No Value de la Nominal		Namainal Maltina	Agency Approvals		
Rating (A)	Amp Code	Max Voltage Rating (V)	Interrupting Rating	Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec.)	, cUL)us
0.500	.500	125V	50A @ 125VDC 50A @ 125VAC 300A @ 32VDC	0.5455	0.02874	X
1.00	001.	125V		0.2242	0.14785	X
1.25	1.25	125V		0.1637	0.30269	X
1.50	01.5	125V		0.1263	0.45970	X
2.00	002	125V		0.1004	0.75625	X

Note: I2t values stated for 8msec opening time.

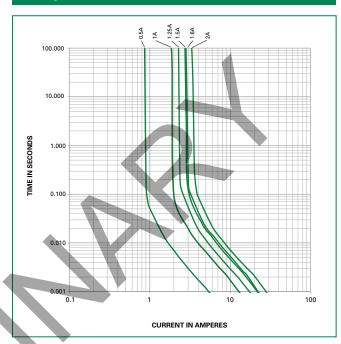


Temperature Rerating Curve



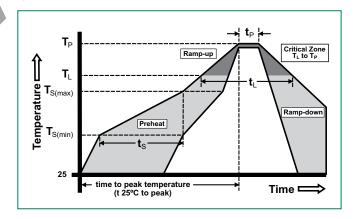
 $\ensuremath{\text{NOTE}}$: Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Soldering Parameters

Reflow Condition		Pb – free assembly	
Pre Heat	-Temperature Min (T _{s(min)})	150°C	
	-Temperature Max (T _{s(max)})	200°C	
	-Time (Min to Max) (t _s)	60 – 180 seconds	
Average Ramp-up Rate (Liquidus Temp (T _L) to peak)		5°C/second max.	
T _{S(max)} to T _L - Ramp-up Rate		5°C/second max.	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
nellow	-Temperature (t _L)	60 - 90 seconds	
Peak Temperature (T _P)		250+0/-5 °C	
Time within 5°C of actual peak Temperature (t _p)		20 – 40 seconds	
Ramp-down Rate		5°C/second max.	
Time 25°C to peak Temperature (T _P)		8 minutes max.	
Do not exceed		260°C	



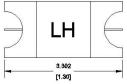
Surface Mount Fuses TFF Fuse > 470SNP Series > 1206 Fast Acting

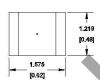
Product Characteristics

Materials	Body: Epoxy Resin Terminations: Cu/Ni/Sn (100% Pb-free)		
Product Marking	Body: Current Rating		
Operating Temperature	-55°C to +125°C		
Solderability	MIL-STD-202		
Insulation Resistance (after opening)	IEC 60127-4 (0.1Mohm Min)		

Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C to 125°C, 15 minutes @ each extreme		
Mechanical Shock	MIL-STD-202, Method 213B, Test Condition I: De-energized. 100G's peak amplitude, sawtooth wave 6ms duration, 3 cycles XYZ+xyz = 18 shocks		
Vibration	MIL-STD-202, Method 201: 0.03 amplitude, 10-55 Hz in 1 min. 2 hrs. each XYZ = 6hrs (10-55 Hz)		
Moisture Resistance	MIL-STD-202, Method 106, 10 cycles Condition A		
Salt Spray	MIL-STD-202, Method 101, Test Condition B (48 hrs)		
Resistance to Soldering Heat	Method 210, Test Condition B (10 sec at 260°C)		

Dimensions



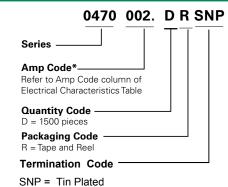


Recommended Pad Layout 3.650 [1.44] 2.050 [0.47] 1,280 [0.50]

Part Marking System

Marking Code	Amp Code		
LF	.500		
LH	001.		
LJ	1.25		
LK	01.5		
LN	002.		

Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
8mm Tape and Reel	EIA-RS-481-1	1500	DR	N/A